

[54] **COMMUNICATION CONTROL SYSTEM
CAPABLE OF SEARCHING A CALLED
TELEPHONE SET IN A MOBILE RADIO
TELEPHONE NETWORK**

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[57] ABSTRACT

For use in a mobile radio telephone network including radio telephone sets movable in an area divided into a predetermined number of zones, a communication control system includes a searching arrangement (25, 33) for searching one (15') of radio communication devices of the network as a searched communication device that is assigned to a present one of the zones into which a specific one (11') of the radio telephone sets has moved from a previous one of the zones. For operation of the searching arrangement, a communicating arrangement (22, 25, 32) of the system sends a call signal to a specific one of the radio communication devices that is assigned to the previous zone to transmit the call signal to the specific telephone set and receives a response signal transmitted from the specific telephone set if the specific telephone set were in the previous zone. For the communicating arrangement, a selecting arrangement (21, 25, 31) selects the specific communication device with reference to a memory (27) for memorizing, in correspondence to the radio telephone sets, location information indicative of the radio communication devices assigned to the zones in which the radio telephone sets are present at a time. The searching arrangement preferably updates the memory to make the information indicate the searched communication device instead of the specific communication device.

4 Claims, 15 Drawing Sheets

